ABSTRACT OF THE DISCLOSURE

In a flip-chip type semiconductor device, a pad electrode and a passivation film are formed on a semiconductor substrate. An insulating resin layer is formed on the passivation film, and an opening is formed above the electrode. A pad electrode adhesive metal film is formed on the substrate like a re-wiring pattern, and a plating feed layer metal film and a Cu plating layer are sequentially formed on the metal film to form a wiring layer.

- 10 A metal post electrode is formed on the wiring layer. A solder bump is formed on the post electrodes, a support plate in which holes each having a diameter larger than the diameter of the solder bump are formed at positions adjusted to the solder bumps is arranged, and an insulating resin
- 15 layer is formed between the support plate and the semiconductor substrate. Therefore, a stress acting on the solder bump is moderated.